

Measures on orthoideals and L 1-spaces associated with positive operators

Novikov A., Tikhonov O.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016, Pleiades Publishing, Ltd. We study measures on orthoideals in the set of projections in von Neumann algebra, which appear within a framework of L1-spaces associated with positive operators in the algebra. We show that there exists a positive measure on orthoideal, which cannot be extended to a normal weight on the algebra, but can be represented as a difference of two positive measures extendable to normal weights.

<http://dx.doi.org/10.1134/S1995080216040144>

Keywords

measure on orthoideal, Von Neumann algebra